



SLOVENSKI STANDARD
oSIST prEN 15955:2020
01-junij-2020

Železniške naprave - Infrastruktura - Vlečni stroji, priklopni vagoni in pripadajoča oprema - Splošne varnostne in tehnične zahteve za vožnjo in delovanje

Railway applications - Infrastructure - Demountable machines, trailers and associated equipment - General safety and technical requirements for travelling and working

Bahnanwendungen - Infrastruktur - Ausgleisbare Maschinen, Anhänger und zugehörige Ausstattung - Allgemeine Sicherheitsanforderungen und technische Anforderungen an das Fahren und den Arbeitseinsatz

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Applications ferroviaires - Infrastructure - Machines dérailables, remorques et éléments associés - Prescriptions techniques pour la circulation et le travail

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Ta slovenski standard je istoveten z: prEN 15955

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45.060.20	Železniški vagoni	Trailing stock
45.120	Oprema za gradnjo in vzdrževanje železnic oz. žičnic	Equipment for railway/cableway construction and maintenance

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EUROPEAN STANDARD
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English Version

Railway applications - Infrastructure - Demountable machines, trailers and associated equipment - General safety and technical requirements for travelling and working

Applications ferroviaires - Infrastructure - Machines
déraillables, remorques et éléments associés -
Prescriptions techniques pour la circulation et le
travail

Bahnwendungen - Infrastruktur - Ausgleisbare
Maschinen, Anhänger und zugehörige Ausstattung -
Allgemeine Sicherheitsanforderungen und technische
Anforderungen an das Fahren und den Arbeitseinsatz

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 256.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	10
Introduction	11
1 Scope.....	12
1.1 General.....	12
1.2 Validity of this document.....	13
2 Normative references.....	13
3 Terms and definitions.....	16
4 Hazards and categories.....	19
4.1 List of significant hazards.....	19
4.2 Examples of demountable machines and trailers.....	19
4.3 Attachment with rail wheels.....	19
5 Safety requirements and/or measures.....	20
5.1 General.....	20
5.2 Ergonomics.....	21
5.3 Gauge.....	21
5.3.1 Travelling mode gauge.....	21
5.3.2 Stowing of moveable equipment in travelling mode.....	22
5.3.3 Working limit	22
5.3.4 Determination of lateral limit of exceedance allowed on curves in working mode.....	22
5.3.5 Limits in lower area in working and travelling mode.....	23
5.3.6 Working limit in the upper area.....	23
5.4 Interaction with the infrastructure.....	24
5.4.1 General.....	24
5.4.2 Loads applied to the ballast	24

5.4.3	Loads applied to the formation	24
5.4.4	Wheel load.....	24
5.5	Running safety equipment	24
5.6	Safety against derailment.....	24
5.6.1	General	24
5.6.2	Safety against derailment for machines with a maximum travelling speed of greater than 60 km/h.....	24
5.6.3	Safety against derailment for machines with a maximum travelling speed of $v \leq 60$ km/h	24
5.6.4	Railhead clearing devices	25
5.7	Stability and prevention of overturning	25
5.8	Machine frame and structure.....	25
5.8.1	Design of the machine frame for machines with a maximum speed greater than 30 km/h.....	25
5.8.2	Design of the machine frame for machines with a maximum speed of 30 km/h or less	25
5.8.3	Lifting and jacking points	25
5.9	Inter machine couplings.....	26
5.9.1	Couplings	26
5.9.2	Special case for trailer that cannot be coupled with other trailers.....	26
5.10	Running gear	26
5.11	Rail wheel suspension	26
5.12	Braking.....	26
5.12.1	General	26
5.12.2	Holding on gradients.....	27
5.12.3	General braking requirements.....	28
5.12.4	Braking of towing machines	28
5.12.5	Braking of trailers	28
5.12.6	Break away braking of trailers.....	29
5.12.7	Specific requirements for continuous air service brake system.....	29

prEN 15955:2020 (E)

5.12.8 Air continuous brake for trailers	29
5.13 Driving and working cabs and places	29
5.13.1 Requirement to fit cab	29
5.13.2 Minimum dimensions in cabs	30
5.13.3 Cab floors	30
5.13.4 Emergency exit	30
5.13.5 Climatic conditions in cab	30
5.13.6 Protection from dust	30
5.13.7 Visibility from driving position	30
5.13.8 Windows	30
5.13.9 Storage for instruction handbook	31
5.14 Access and egress to and from working places	32
5.14.1 Cabs	32
5.14.2 Working places, places for control and maintenance outside of cabs	32
5.14.3 Walkways on the machine	33
5.15 Seats	33
5.16 Standing places	33
5.17 Edges and corners	33
5.18 Pipes and hoses	33
5.19 Communications between work positions	33
5.20 Controls	33
5.20.1 General requirement	33
5.20.2 Starting system	35
5.20.3 Inadvertent activation	35
5.20.4 Pedals	35
5.20.5 Protection against uncontrolled motion in working mode	35
5.20.6 Control panels and indicators	35
5.20.7 Remote controls	35

iTeh STANDARD PREVIEW
(standards.iteh.ai)

oSIST prEN 15955:2020
<https://standards.iteh.ai/catalog/standards/sist/8c09c57d-ac16-4921-bc47-9529db1f6925/osist-pren-15955-2020>

5.20.8	Data recorder	35
5.21	Visibility and audibility of the machine.....	36
5.21.1	General	36
5.21.2	Trailer light switching arrangements	36
5.21.3	Additional requirement for trailer tail lamps.....	36
5.22	Warning systems.....	36
5.23	Warning systems for personnel of traffic on adjacent lines in working mode	36
5.24	Electrical system	36
5.24.1	Electrical equipment	36
5.24.2	Disconnection devices	37
5.24.3	Working environment	37
5.24.4	Conductors, cables and wiring practices.....	37
5.24.5	Batteries.....	37
5.24.6	Overhead contact line system	37
5.24.7	Equipotential bonding	38
5.24.8	Antennae.....	38
5.24.9	Pantograph.....	38
5.25	Electromagnetic compatibility	38
5.25.1	Emissions from machines.....	38
5.25.2	Immunity of machines from railway environment.....	38
5.26	Safety related control systems.....	39
5.26.1	Specific control systems.....	39
5.26.2	Determining the performance levels of control systems.....	39
5.26.3	Software	41
5.27	Power supply.....	41
5.28	Failure recovery.....	41
5.29	On and off tracking.....	41
5.29.1	General	41

iTeh STANDARD PREVIEW
(standards.iteh.ai)

oSIST prEN 15955:2020
<https://standards.iteh.ai/catalog/standards/sist/8c09c57d-ac16-4921-bc47-9529db1f6925/osist-pren-15955-2020>

prEN 15955:2020 (E)

5.29.2	Use of turntables	41
5.30	Setting up and packing away	41
5.31	Mobile elevating work platform (MEWP)	41
5.32	General and railway specific attachments.....	42
5.33	Emergency stopping devices.....	42
5.34	Moving parts and materials	42
5.35	Thermal hazards	42
5.36	Emission of gas and particles	42
5.37	Pressurized systems	42
5.38	Fuel tanks and hydraulic tanks.....	42
5.39	Noise reduction.....	42
5.40	Vibration	43
5.41	Protection from the risks of fire	43
5.41.1	Fire fighting equipment.....	43
5.41.2	Material requirements.....	43
5.41.3	Fire detection devices	44
5.41.4	Fire extinguishing devices.....	44
5.41.5	Self-rescue devices	44
5.41.6	Built in fire extinguishing system	44
5.42	Lighting.....	44
5.42.1	Lighting general.....	44
5.42.2	Lighting inside the machine.....	44
5.42.3	Lighting for working places/areas beside the machine.....	44
5.43	Movement Limiting Devices.....	45
5.43.1	General.....	45
5.43.2	Design of movement limiting devices.....	46
5.43.3	High performance movement limiting device.....	46
5.43.4	Movement limiting devices – manually overriding the limit.....	47

iTeh STANDARD PREVIEW
(standards.iteh.ai)

oSIST prEN 15955:2020

<https://standards.iteh.ai/catalog/standards/sist/8c09c57d-ac16-4921-bc47-9529db1f6925/osist-pren-15955-2020>

5.43.5	Lateral limiting devices.....	47
5.43.6	Height limiting device.....	47
5.44	Safe handling.....	47
5.45	Trailer operator position.....	47
5.46	Demountable modules.....	48
5.47	Moveable machine components.....	48
5.48	Machines with more than one moveable component.....	48
5.49	Environmental temperature conditions.....	48
5.50	Storage of substances hazardous to health.....	48
5.51	Maintenance.....	49
5.51.1	General.....	49
5.51.2	Frequent maintenance.....	49
5.51.3	Support devices.....	49
5.51.4	Unauthorized access to the engine compartment.....	49
6	Additional safety requirements or measures for specific machine functions.....	50
7	Marking and numbering of the machine.....	50
7.1	Warning signs and pictograms.....	50
7.2	Identification plate.....	50
7.3	Warning signs and written warnings.....	50
7.4	Marking.....	51
8	Instruction handbook.....	51
8.1	General.....	51
8.2	Technical description.....	52
8.3	Instructions for use.....	52
8.4	Restrictions of use.....	53
8.5	Instructions for maintenance.....	53
9	Verification of the conformity to the requirements and/or particular safety measures.....	54

iTeh STANDARD PREVIEW
(standards.iteh.ai)

oSIST prEN 15955:2020
<https://standards.iteh.ai/catalog/standards/sist/8c09c57d-ac16-4921-bc47-9529db1f6925/osist-pren-15955-2020>

prEN 15955:2020 (E)

9.1	General.....	54
9.2	Methods of examination.....	54
9.2.1	General.....	54
9.2.2	Visual check	54
9.2.3	Measurement.....	54
9.2.4	Functional test	54
9.2.5	Load test(s)	54
9.2.6	Specific verification/measurements and other controls	54
	Annex A (normative) List of significant hazards	55
	Annex B (normative) Special national conditions.....	60
	Annex C (normative) Checklist for conformity.....	69
	Annex D (informative) Noise test code (grade of accuracy 2)	76
D.1	Scope.....	76
D.2	Definitions.....	76
D.3	Determination of the emission sound pressure level at the working place and other specified positions.....	76
D.4	Sound power level determination	76
D.5	Installation and mounting conditions.....	77
D.6	Working conditions.....	77
D.7	Measurement uncertainties.....	79
D.8	Information to be recorded.....	79
D.9	Information to be reported	79
D.10	Declaration and verification of noise emission values	80
	Annex E (normative) Vibration test code.....	83
E.1	Scope.....	83
E.2	Measurement and degree of uncertainty (K) of whole body vibration (WBV)	83
E.2.1	General.....	83
E.2.2	WBV Vibration measurement.....	83

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(standards.iteh.ai)

oSIST prEN 15955:2020
<https://standards.iteh.ai/catalog/standards/sist/8e09c57d-ac16-492f-bc47-9529db16925/osist-pr-en-15955-2020>

E.2.3	Reporting whole body vibration data	83
E.3	Measurement and degree of uncertainty (K) of hand arm vibration (HAV)	84
E.3.1	General	84
E.3.2	HAV Vibration measurement	84
E.3.3	Reporting hand arm vibration data	84
Annex F (informative) Technical details for buffing and drawgear		85
F.1	General	85
F.2	Draw gear constituent parts	85
F.2.1	Coupling part	85
F.2.1.1	Definition	85
F.2.1.2	Coupling	85
F.2.1.3	Tow bar	86
F.2.1.4	Screw coupling	86
F.3	Application	86
F.4	User information	86
Annex G (informative) Machine identification plate		87
Annex H (informative) Example performance levels		88
Annex ZA (informative) Relationship between this European Standard and the essential requirements of EU Directive 2006/42/EC aimed to be covered		89
Bibliography		96

iTeh STANDARD PREVIEW
(standards.iteh.ai)

oSIST prEN 15955:2020

[https://standards.iteh.ai/catalog/standards/sist/8c09c57d-ac16-4921-bc47-](https://standards.iteh.ai/catalog/standards/sist/8c09c57d-ac16-4921-bc47-9529db1f6925/osist-pr-en-15955-2020)

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prEN 15955:2020 (E)

European foreword

This document (prEN 15955:2020) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 15954-1:2013, EN 15954-2:2013, EN 15955-1:2013, and EN 15955-2:2013.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2006/42/EC

For relationship with this EU Directive, see informative Annex ZA, which is an integral part of this document.

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Introduction

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this document.

This document was prepared to meet the basic requirements of EU Directives to facilitate an open market for goods and services.

This document deals with railway specific risks of the demountable machines and trailers as specified in 3.1, 3.2 and 3.3 when travelling and working on railway infrastructures.

Special national conditions are dealt with in Annex B.

This document is a type C standard as stated in EN ISO 12100.

When provisions of this type C standard are different from those which are stated in type B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built in accordance with the provisions of this type C standard.

The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this document.

The hazards which exist in all mechanical, electrical, hydraulic, pneumatic and other components of machines and which are dealt with in the relevant document are not within the scope of this document. Where necessary, references are made to appropriate standards of this type.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers (small, medium and large enterprises);
- health and safety bodies (regulators, accident prevention organizations, market surveillance etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- machine users/employees (e.g. trade unions, organizations for people with special needs);
- service providers, e.g. for maintenance (small, medium and large enterprises);
- consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document.

1 Scope

1.1 General

This document specifies the requirements for demountable machines and trailers, including road-rail trailers – henceforward referred to as ‘machines’.

NOTE Trailers are considered as machines because they are moved along the track by powered machines.

This document specifies the requirements to deal with the common hazards during transport, assembly and installation, commissioning, travelling and working on track, use including setting, programming, and process changeover, operation, cleaning, fault finding, maintenance and de-commissioning of the machines and associated equipment when they are used as intended and under conditions of misuse which are reasonably foreseeable; see 5.1.

These machines are not designed nor intended to operate signalling and control systems and are only designed and intended to work and travel under special operating conditions in accordance with those generally required by the infrastructure managers. These machines are not permitted to run on railway lines open to normal traffic. Other rail mounted railway maintenance and infrastructure inspection machines are dealt with in other European Standards, see Technical Report 00256884.

This document includes the requirements for travelling and working on all railway networks including Urban Rail. Additional requirements can apply for travelling and working on infrastructures with narrow gauge or broad gauge lines, and railways utilizing other than adhesion between the rail and rail wheels.

This document is also applicable to machines and associated equipment that in working mode are partly supported on the ballast or the formation.

This document does not apply to the following: <https://standards.iteh.ai/catalog/standards/sist/8c09c57d-ae16-492f-be47-9529db16925/osist-pr-en-15955-2020>

- requirements for quality of the work or performance of the machine;
- additions or modifications to the requirements of this document established by the railway infrastructure operator;
- separate equipment temporarily mounted on machines.
- machines that utilize the catenary for traction purposes or as a power source;
- hazards due to air pressure caused by the passing of high-speed trains at more than 200 km/h

This document does not establish additional requirements for the following:

- operation subject to special rules, e.g. potentially explosive atmospheres;
- hazards due to natural causes, e.g. earthquake, lightning, flooding;
- working methods;
- operation in severe working conditions requiring special measures, e.g. extreme environmental conditions (below – 20 °C or above + 40 °C), corrosive environments, contaminating environments, strong magnetic fields;
- hazards occurring when used to handle suspended loads which may swing freely.

1.2 Validity of this document

This document applies to all machines, which are ordered one year after the publication date by CEN of this standard.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2:1992, *Classification of fires*

EN 3-7:2004+A1:2007, *Portable fire extinguishers - Part 7: Characteristics, performance requirements and test methods*

EN 280:2013+A1:2015, *Mobile elevating work platforms - Design calculations - Stability criteria - Construction - Safety - Examinations and tests*

EN 403:2004, *Respiratory protective devices for self-rescue - Filtering devices with hood for escape from fire - Requirements, testing, marking*

EN 474-1:2006+A6:2019, *Earth-moving machinery - Safety - Part 1: General requirements*

EN 547-1:1996+A1:2008, *Safety of machinery - Human body measurements - Part 1: Principles for determining the dimensions required for openings for whole body access into machinery*

EN 547-2:1996+A1:2008, *Safety of machinery - Human body measurements - Part 2: Principles for determining the dimensions required for access openings*

EN 547-3:1996+A1:2008, *Safety of machinery - Human body measurements - Part 3: Anthropometric data*

EN 614-1:2006+A1:2009, *Safety of machinery - Ergonomic design principles - Part 1: Terminology and general principles*

EN 614-2:2000+A1:2008, *Safety of machinery - Ergonomic design principles. Part 2: Interactions between the design of machinery and work tasks*

EN 842:1996+A1:2008, *Safety of machinery - Visual danger signals - General requirements, design and testing*

EN 894-1:1997+A1:2008, *Safety of machinery - Ergonomics requirements for the design of displays and control actuators - Part 1: General principles for human interactions with displays and control actuators*

EN 894-2:1997+A1:2008, *Safety of machinery - Ergonomics requirements for the design of displays and control actuators - Part 2: Displays*

EN 894-3:2000+A1:2008, *Safety of machinery - Ergonomics requirements for the design of displays and control actuators - Part 3: Control actuators*

EN 981:1996+A1:2008, *Safety of machinery - System of auditory and visual danger and information signals*